



Atty. Dkt. No. 034827-0203

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: SAMOSZUK et al.

Title: DETECTION OF CLONAL T-CELL RECEPTOR- $\gamma$  GENE REARRANGEMENT BY PCR/TEMPORAL TEMPERATURE GRADIENT GEL ELECTROPHORESIS (TTGE)

<p><b>CERTIFICATE OF MAILING</b></p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.</p> <p><u>DIANE GARCIA</u> (Printed Name)</p> <p><u><i>Diane Garcia</i></u> (Signature)</p> <p><u>7-14-04</u> (Date of Deposit)</p>
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Appl. No.: 10/824,187

Filing Date: 04/13/2004

Examiner:

Art Unit: 1634

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop Amendment (IDS)  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants submit herewith on Form PTO-892 and Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 09/886,227, filed 06/21/2001. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a

competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

**RELEVANCE OF EACH DOCUMENT**

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of the forms be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date

7/13/04

By

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**Notice of References Cited**

Application/Control No.

09/886,227

Applicant(s)/Patent Under  
Reexamination  
SAMOSZUK ET AL.

Examiner

Jeffrey Fredman

Art Unit

1634

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Shina et al, Letters in Applied Microbiology, (June 2001) 32:384-387.
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



# Notice of References Cited

Application/Control No.

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Applicant(s)/Patent Under

Reexamination

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Examiner

Jeffrey Fredman

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1637

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
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	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

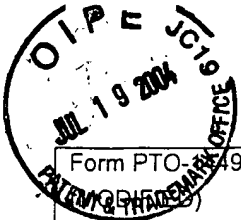
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

## NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Chott et al, "The same dominant T cell clone is present in multiple regressing skin lesions and associated T cell lymphomas of patients with lymphomatoid papulosis", J. Invest. Dermatology, (1996) vol. 106, No. 4, pages 696-700.
	V	Theodorou et al, "Cutaneous T-cell infiltrates: Analysis of T-cell receptor gamma gene rearrangment by polymerase chain reaciton and denaturing gradient gel electrophoresis", Blood (1995) Vol. 86, no. 1, pages 305-310.
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



Form PTO-1049

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

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SERIAL NO.

09/886,227

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

SAMOSZUK et al.

FILING DATE

06/21/2001

GROUP ART UNIT

1651

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	A1	Alkan et al, "Detection of T-cell Receptor- $\gamma$ Gene Rearrangement in Lymphoproliferative Disorders by Temperature Gradient Gel Electrophoresis," Arch. Pathol. Lab. Med., Vol. 123, Feb. 2001, pp. 202-207.
	A2	Andersen et al, "Polymerase chain reaction-denaturing gradient gel electrophoresis (PCR/DGGE)-based detection of clonal T-cell receptor $\gamma$ gene. . ." J. Cutan. Pathol. , Vol. 26, Jan. 1999, pp. 176-182.
	A3	Bjørheim <sup>a,b</sup> et al, "Mutation analyses of KRAS exon 1 comparing 3 different techniques: temporal temperature Gradient electrophoresis, constant. . .," Mutation Research, Vol. 403, July 1998, pp. 103-112.
	A4	Bourguin et al, "Rapid, nonradioactive detection of clonal T-cell receptor gene rearrangements in lymphoid neoplasms," Proc. Natl. Acad. Sci. USA, Vol: 87, Nov. 1990, pp. 8536-3540.
	A5	Chen et al, "Detection of Mitochondrial DNA Mutations by Temporal Temperature Gradient Gel Electrophoresis," Clinical Chemistry, Vol. 45, 1999, pp. 1162-1167.

EXAMINER

DATE CONSIDERED

- \* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 034827-0201		SERIAL NO. 09/886,227	
<b>INFORMATION DISCLOSURE CITATION</b>  <i>(Use several sheets if necessary)</i>				APPLICANT SAMOSZUK et al.			
				FILING DATE 06/21/2001		GROUP ART UNIT 1651	
<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	A6	Coombs et al, "Optimisation of DNA and RNA extraction from archival formalin-fixed tissue," Nucleic Acids Research, Vol. 27, 1999, pp. i-iii.					
	A7	Day et al, "Electrophoresis for genotyping: temporal thermal gradient gel electrophoresis for profiling of Oligonucleotide dissociation," Nucleic Acids Research, Vol. 23, July 1995, pp. 2404-2412.					
	A8	Dereure et al, "T-Cell Clonality in Pityriasis Lichenoides et Varioliformis Acuta," Arch. Dermatol, Vol. 136, Dec. 2000, pp. 1483-1486.					
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	A13	Greiner, Timothy C., "Advances in Molecular Hematopathology, T-Cell Receptor $\gamma$ and bcl-2 Genes," American Journal of Pathology, Vol. 154, Jan. 1999, pp. 7-9.					
	A14	Hafner et al, "Isothermal Amplification and Multimerization of DNA by Bst DNA Polymerase," BioTechniques, Vol. 30, April 2001, pp. 852-867.					
	A15	Higashimoto et al, "Rapid Detection of FGFR Mutations in Syndromic Craniosynostosis by Temporal . . .," International Journal of Laboratory Medicine and Molecular Diagnostics, Vol. 45, Nov. 1999, pp. 2005-2006.					
	A16	Menke et al, "Temperature gradient gel electrophoresis for analysis of a polymerase chain reaction-based diagnostic clonality assay in the early stages of cutaneous . . .," Electrophoresis, Vol. 16, 1996, pp. 733-338.					
	A17	Murphy et al, "Detection of TCR- $\gamma$ gene rearrangements in early mycosis fungoides by non-radioactive PCR-SSCP," J. Cutan. Pathol., Vol. 27, 2000, pp. 228-234.					
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	A19	Posnett et al, Clonal Populations of T Cells in Normal Elderly Humans: The T Cell Equivalent to "Benign Monoclonal Gammopathy," J. Exp. Med., Vol. 179, Feb. 1994, pp. 609-618.					
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